WHAT IS CLAIMED IS:

- 1. A method of sterilizing objects utilizing a supercritical fluid, comprising the steps of:
- (1) connecting a pressure cleaning vessel and a vacuum chamber to each other by way of at least one connecting pipe in said equipment utilizing said supercritical fluid;
- (2) impregnating the objects to be sterilized, for a given period, in said supercritical fluid with which said pressure cleaning vessel has been filled; and
- (3) thereafter opening the connection between said pressure cleaning vessel and said vacuum chamber so as to generate sudden bubbling within said vessel as a result of a pressure difference;

wherein thorough sterilization is achieved when said supercritical fluid having penetrated into bacteria and viruses explodes and destroys these organisms instantly by its power of vaporization and expansion; and

wherein finish cleaning work is also achieved at the same time by the cleaning action of said supercritical fluid without any need of drying said fluid.

- 2. A method of sterilizing objects utilizing a supercritical fluid, comprising the steps of:
- (1) providing an opening in the ceiling of a pressure cleaning vessel in said equipment;
- (2) impregnating the objects to be sterilized, for a given period, in said supercritical fluid with which said pressure cleaning vessel has been filled;
- (3) thereafter releasing the fluid fully through said opening in the ceiling of said pressure cleaning vessel, so as to generate sudden bubbling within said vessel as a result of a large pressure difference;

wherein thorough sterilization is achieved when said supercritical fluid having penetrated into bacteria and viruses explodes and destroys these organisms instantly by its power of vaporization and expansion; and

wherein finish cleaning work is also achieved at the same time by the cleaning action of said supercritical fluid without any need of drying.

- 3. The method according to claim 1, wherein said objects are documents, letters or stationary.
- 4. The method according to claim 2, wherein said objects are documents, letters or stationary.
- 5. The method according to claim 1, wherein said objects are contaminated by SARS virus or touched by a person contaminated by SARS virus.
- 6. The method according to claim 2, wherein said objects are contaminated by SARS virus or touched by a person contaminated by SARS virus.
- 7. The method according to claim 1, wherein said objects are contaminated by spore-forming bacteria.
- 8. The method according to claim 2, wherein said objects are contaminated by spore-forming bacteria.
- 9. The method according to claim 5, wherein said spore-forming bacteria are exosporium-covered *Bacillus subtislis* or *Bacillus anthracis*.
- 10. The method according to claim 6, wherein said spore-forming bacteria are exosporium-covered *Bacillus subtislis* or *Bacillus anthracis*.
- 11. The method according to claim 1, wherein said thorough sterilization is achieved at a temperature more than about 80°C.
- 12. The method according to claim 2, wherein said thorough sterilization is achieved at a temperature more than about 80°C.

- 13. The method according to claim 1, wherein cleaning action is performed by the forced agitation of liquefied gas after the vaporization and expansion of said supercritical fluid.
- 14. The method according to claim 2, wherein cleaning action is performed by the forced agitation of liquefied gas after the vaporization and expansion of said supercritical fluid.
- 15. The method according to claim 1, wherein said cleaning action is performed by the bubbling generated when the fluid, which is supercritical to a relatively higher extent than the fluid inside the pressure cleaning vessel, is introduced into said pressure vessel through its bottom.
- 16. The method according to claim 2, wherein said cleaning action is performed by the bubbling generated when the fluid, which is supercritical to a relatively higher extent than the fluid inside the pressure cleaning vessel, is introduced into said pressure vessel through its bottom.
- 17. The method according to claim 1, wherein said objects are medical appliances, dental materials and metal objects inserted into a body of a patient.
- 18. The method according to claim 2, wherein said objects are medical appliances, dental materials and metal objects inserted into a body of a patient.